

U-2 AIRCRAFT COMMANDER

CHECK OUT REQUIREMENTS

(ANNEX XVII SAC REGULATION 51-19)

DATE

(SAC REGULATION 50-43)

Name:	Last	First	Middle Ini	Grade	Serv Nr	Orgn
						4078 SAC

25X1A9a

25X9A6

I. QUALIFICATIONS

AIRCRAFT COMMANDER:

- \*(1) Is a graduate of the USAF Advanced Survival school.
- ✓(2) Possesses at least 1500 hours total pilot time of which 300 hours are first pilot jet time.
- ✓(3) Possess 1000 hours first pilot time of which 750 hours are first pilot jet time.
- ✓\*(4) Is under 35 years of age.
- ✓(5) Is a volunteer to fly the U-2 aircraft.
- ✓(6) Is physically qualified class II and have completed partial pressure suit indoctrination in accordance with AFR 50-27 and SAC Supplement thereto.

NOTE: \* Not required for Staff Personnel.

II. PRE-CHECK OUT REQUIREMENTS

SUBJECT	RQR	DATE	Signature of Ground Training Officer or Instructor
T-33 checkout in accordance with Annex XII as amended to SACR 51-19.			
1. Personal Equipment, formal instruction on the care, inspection, and use of personal equipment (pressure suit, parachute, flight clothing, survival kits, life vest, first aid kit and professional equipment.)	2 Hrs	✓ 31 Jan 61	

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51-19 + 1 one extra ride completed during week ending 31 march

	RQR	DATE	Signature of Ground Training Officer or Instructor
2. Oxygen and Altitude indoctrination in accordance with AFR 50-27 and SAC Sup 1 thereto			
3. Emergency Procedures			
a. Crash Landings			
b. Ditching			
c. Bail-out procedures			
d. Fires			
(1) Engine fires on ground			
(2) Engine fires in flight			
(3) Fuselage fires			
(4) Electrical fires			
4. Aircraft Limitations			
5. Drag Chutes	1 Hr		
a. Packing practice supervised by qualified chute packing personnel.			
b. Demonstrate proficiency in installation of Drag Chute			

## III.

## GROUND TRAINING PHASE I

	RQR	DATE	Signature of Ground Training Officer or Instructor
1. U-2 FTD	20 Hrs		
a. Aircraft General		23/1/61	
b. Engine Introduction		25/1/61	
c. Hydraulics, Oxygen, and Pressurization		26/1/61	
d. Electrical System		27/1/61	
e. Landing Gear, Brakes and Gust Control		25/1/61	
f. Fuel Control		25/1/61	
2. Flight Characteristics	2 Hrs	20/1/61	
3. Cockpit Check and Aircraft Familiarization	4 Hrs	3+4/2/61	
4. Review of U-2 Operations Memorandums	1 Hr	3/2/61	
5. Physiological Aspects of High Altitude Flying	2 Hrs	31/1/61	
6. High Altitude Weather	2 Hrs	31/1/61	
7. Mission Planning Procedures	1 Hr	30/1/61	
8. Pre-flight and Inflight Log Procedures and Cruise Control	1 Hr	3/2/61	

SUBJECT	RQR	DATE	Signature of Grd Tng Off or Instructor
9. Dead Reckoning Navigation Review	1 Hr	3/2/61	
10. E-10 Computer	1 Hr	30/1/61	
11. High Altitude Pilot- age and Map Reading	1 Hr	30/1/61	
12. Celestial and Grid Navigation	27 Hrs	Completed 6/3/61	
13. Sextant Introduction and Practice	2 Hrs	30/1/61	
14. Introduction to Wea Reconnaissance	1 Hr	1/2/61	
15. Basic Nepho Compu- tations and Basic Prin- ciples of Aerial Nephography	1 Hr	1/2/61	
16. Introduction to Nepho- graph & Related Systems	1 Hr	2/2/61	
17. Nephogram Flight- line Technique	1 Hr	2/2/61	
18. Drift Sight	1 Hr	2/2/61	
19. Auto Pilot and MA-1 Compass	1 Hr	2/2/61	
20. Two Simulated Celes- tial Missions in Celes- tial Grd Trainer	5 Hrs	13/2/61	
21. View Moving Pictures of U-2 Take Off and Landing Accidents	1 Hr	21/2/61	
22. Aircraft Questionnaire		20/2/61	

## U-3A FLIGHT TRAINING PHASE II

- NOTE: (1) The following flight training will be accomplished by each student U-2 pilot prior to receiving Phase IV U-2 transition.
- (2) Simulated U-2 characteristics in the U-3A must be accomplished with a U-3A IP who is current in the U-2 aircraft and within a 14 day period prior to the first U-2 sortie.

## Simulated U-2 Characteristics

SUBJECT	RQR	DATE	Signature of Instructor Plt or 4028 Ops Officer
(a) Simulated U-2 Patterns and landings	4	21/2/61	
(b) Simulated U-2 Flameout Patterns	2	3/2/61	

## PHASE III Pre-Solo Proficiency Check

NOTE: Each student U-2 pilot will accomplish satisfactorily, the following written examinations prior to flying the U-2 aircraft.

SUBJECT	RQR	DATE	Signature of Exam Standboard Officer
(a) Proficiency Examination	90%	21/2/61 98%	
(b) Emergency Procedures	90%	21/2/61 100%	
(c) Operations Memorandums		21/2/61 97 1/2 %	

PHASE IV		U-2 TRANSITION	
SUBJECT	RQR	DATE	Signature of Instructor Pilot or 4028th Ops Officer
(a) Taxi Familiarization (One taxi practice prior to day of 1st sortie & one on 1st sortie)	2	8 MAR 61	
(b) Day take-offs and landings:		13-3-61	
(1) With Pogogs	6 5	13-3-61	
	3	15-3-61	
(2) Without Pogogs	6 3	15-3-61	
(3) Full stop landings with Drag Chute	2		
(c) Night Full Stop landing with Drag Chute.	1		
(d) Night Touch & Go landings.	2		
(e) Practice turns (Until proficient)	✓	13-3-61	
(f) Practice Stalls:			
1. 0° Flaps	1	13-3-61	
2. 15° Flaps	1	13-3-61	
3. 25° Flaps	1	13-3-61	
4. Full Flaps	1	13-3-61	
(g) Gust Control Operation (until proficient)		13-3-61	

SUBJECT	RQR	DATE	Signature of Instructor Pilot or 4028 Ops Off
(h) Simulated flameout patterns (until proficient)	4	15.3.61.	
(i) Instrument Fly- ing: 1. Jet pene- tration & ADF low approaches	2	13.3.61	
2. GCA's (Precision)	2	15.3.61.	
(j) Celestial Familiar- ization		15.3.61.	
(k) Auto Pilot Familiar- ization		15.3.61	
(l) Drift sight Familiarization		15.3.61.	
(m) High altitude Familiarization	30 Min		
(n) Emergency pro- cedures			
1. Emergency gear exten- sion (Recycle on normal sys- tem prior to landing)	1		
2. Actual engine shutdown and air start (only over home base, VFR conditions under radio super- vision of IP on the ground)	1		

SUBJECT 50-43 GROUND TRAINING	RQR	DATE	Signature of Ground Training Officer or Instructor
1. Tactical Doctrine	5 hrs		
2. SACM 55-8	4 hrs		
3. Combative Measures	10 hrs or Prof.		
4. Advanced Survival	Graduate		
5. Aquatic Survival	Graduate		
6. Handgun Training	Qual. as sharp shooter		

I certify that \_\_\_\_\_ has successfully  
(Name of Pilot)  
completed the requirements of Annex XVII, SAC Regulation 51-19.

_____	_____	_____
Date	Signature of Squadron Operations Officer	Rank
_____	_____	_____
Date	Signature of Squadron Commander	Rank

DATE \_\_\_\_\_

SAC REG 51-19, MISSION #1  
GRADE SHEET

TYPE: Initial Check Out in U-2 Aircraft

DURATION: 2 + 00 Hrs

Fuel

685 Gals

	<u>Satisfactory</u>	<u>Unsatisfactory</u>
1. Ground Taxi Check (50 Knots Max IAS)	<u>✓</u>	<u>          </u>
2. Takeoff 85% (leave gear down, Climb to 20,000 (160K) level Off)	<u>✓</u>	<u>          </u>
	<u>Accomplished</u>	<u>Unaccomplished</u>
3. Turns (level, climbing, descending)	<u>✓</u>	<u>          </u>
4. Stalls (speed brakes out, gear down, flaps down as briefed Max IAS 130 Knots)	<u>✓</u>	<u>          </u>
5. Gust Control Operations	<u>✓</u>	<u>          </u>
6. Accomplish two normal landing Low Approaches	<u>Satisfactory</u>	<u>Unsatisfactory</u>
#1	<u>✓</u>	<u>          </u>
#2	<u>✓</u>	<u>          </u>
7. Touch & Go Landings (4), Pogos on, speed brakes out. (300 Gals Maximum)		
#1	<u>✓</u>	<u>          </u>
#2	<u>✓</u>	<u>          </u>
#3	<u>✓</u>	<u>          </u>
#4	<u>✓</u>	<u>          </u>
Final Landing	<u>✓</u>	<u>          </u>

(Over)

NARRATIVE OUTLINE OF FLIGHT

INSTRUCTOR PILOT (SIGNATURE)

DATE \_\_\_\_\_

SAC REG 51-19, MISSION #2  
GRADE SHEET

TYPE: Introduction to Medium Altitude and Second Landing Stage

DURATION: 3 + 00

FUEL: 885

	<u>Satisfactory</u>	<u>Unsatisfactory</u>
1. Take-off (85%) W/Pogos, climb to 30 M	<u>✓</u>	<u>          </u>
2. Radio compass, Auto Pilot, Drift-sight Sextant and Instrument Familiarization	<u>✓</u>	<u>          </u>
3. Celestial Observation (5)	<u>✓</u>	<u>          </u>
4. Make penetration on Beacon	<u>✓</u>	<u>          </u>
5. Accomplish minimum of four Simulated flameout patterns		
#1	<u>✓</u>	<u>          </u>
#2	<u>✓</u>	<u>          </u>
#3	<u>✓ (mixed)</u>	<u>          </u>
#4	<u>✓</u>	<u>          </u>
6. Touch & Go Landing (2), Pogos on (300 Gals Maximum)		
#1	<u>✓</u>	<u>          </u>
#2	<u>✓</u>	<u>          </u>
#3 (Full stop)	<u>✓</u>	<u>          </u>
7. Takeoff (Drop Pogos) full power, climb to approximately 10,000'	<u>✓</u>	<u>          </u>
8. Touch & Go Landings		
#1	<u>✓</u>	<u>          </u>
#2	<u>✓</u>	<u>          </u>
9. Final landing with drag chute	<u>NO CHUTE</u>	<u>          </u>

(Over)

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## NARRATIVE OUTLINE OF FLIGHT

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INSTRUCTOR PILOT (SIGNATURE)

SACR 51-19 MISSION #3  
GRADE SHEET

TYPE: Introduction to High Altitude & Third Landing Stage

DURATION: 3 + 00

FUEL: 885 Gals

	<u>Satisfactory</u>	<u>Unsatisfactory</u>
1. Takeoff (85-90% to 45,000 feet)	_____	_____
	<u>Accomplished</u>	<u>Unaccomplished</u>
2. Equipment Familiarization	_____	_____
3. Celestial Observation (5)	_____	_____
4. Climb to Base and remain thirty (30 minutes)	_____	_____
5. Descend to Base - 10 and Shut Engine Down	_____	_____
6. Engine re-start as briefed.	_____	_____
7. Simulated emergency gear extension	_____	_____
8. Simulated Jet Penetration	_____	_____
	<u>Satisfactory</u>	<u>Unsatisfactory</u>
9. GCA (Minimum of 2)		
#1	_____	_____
#2	_____	_____
#3	_____	_____
10. T/G Landings (4) (300 Gals Maximum)		
#1	_____	_____
#2	_____	_____
#3	_____	_____
#4	_____	_____
11. Final Landing W/chute	_____	_____

(Over)

**NARRATIVE OUTLINE OF FLIGHT**

INSTRUCTOR PILOT (SIGNATURE)

DATE \_\_\_\_\_

SAC REG 51-19 MISSION #4\*GRADE SHEET

TYPE: Night Transition

DURATION: 2 + 30 Hrs

FUEL 685

	<u>Satisfactory</u>	<u>Unsatisfactory</u>
1. Take-off (85-90%) approximately 1 + 30 before sunset	_____	_____
2. Climb to 20,000' and make Jet penetration takeoff plus 30 minutes	_____	_____
3. Simulated Flame-out Patterns until fuel is reduced to 300 gals	_____	_____
4. Twilight Touch & Go Landings (Minimum of two)		
#1	_____	_____
#2	_____	_____
#3	_____	_____
5. Night Touch & Go Landings (2)		
#1	_____	_____
#2	_____	_____
6. Night full stop landing with drag chute	_____	_____

NOTE: Instructor Pilot in Mobile Control should monitor fuel consumption to assure the level is as near as possible to 300 gallons at official sunset.

\* This mission may be flown before mission three if the 4028th SRWS Squadron commander feels the individual is sufficiently qualified.

(Over)



**NARRATIVE OUTLINE OF FLIGHT**

**INSTRUCTOR PILOT (SIGNATURE)**